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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,866	02/09/2004	Ashok Rodrigues	81070759	9486
22844	7590	07/28/2006	EXAMINER	
FORD GLOBAL TECHNOLOGIES, LLC. FAIRLANE PLAZA SOUTH, SUITE 800 330 TOWN CENTER DRIVE DEARBORN, MI 48126			NGUYEN, CUONG H	
			ART UNIT	PAPER NUMBER
			3661	

DATE MAILED: 07/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/774,866	<b>Applicant(s)</b> RODRIGUES ET AL.	
	<b>Examiner</b> CUONG H. NGUYEN	<b>Art Unit</b> 3661	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 2/09/04 (the IDS).
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 February 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>2/09/04</u> . | 6) <input type="checkbox"/> Other: _____  |

***DETAILED ACTION***

1. This Office Action is the answer to the IDS received on 2/09/2004.
2. Claims 1-14 are pending in this application

***Drawings***

3. The submitted drawings (e.g., Figs.5-6) need clear directions between presented blocks of those flow-charts for examining purposes.

***Claim Rejections - 35 USC § 112***

4. Claim 1 recites "the steps of:", "the current clutch..."  
Claim 4 recites "the occurrence...", and "the current clutch..."  
Claims 2-3 recite "monitoring the beginning of...", "the elapsed time...";  
Claim 2 recites "a interval timer...", it should be "an interval timer".  
Claim 8 recites "the steps of:", "the current torque...", "...with the speed...", and  
"...the current clutch slip"  
Claim 12 recites "...the current speed...", "...the magnitude of input ...", and  
"...the sum of the first and second...";  
Claim 14 recites "...the elapsed time...", and "a interval timer for monitoring the  
elapsed time of the method" – "the method" here lacks antecedent basis.  
There are insufficient antecedent basis for these above features in above pending  
claims.

***Claim Rejections - 35 USC § 112***

5. Claims 1, 8, and 12-13 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See

MPEP § 2172.01.

A. As to claims 1, and 12-13: the omitted structural cooperative relationships are: the steps 222, 224, and 226 .etc of disclosed Fig. 5, these omitting steps take “Clutch hold timer” into consideration for controlling a clutch. These claims are rejected as unclear/vague and not enabling one of ordinary skill in the art to make and use the invention – i.e., these claims are not considering time/duration in claimed process. These rejections are based on the fact the applicant did not including a variable of clutch duty cycle to perform claimed methods (i.e., to timely sum up first, and second outputs).

B. As to claim 8, it is unclear to claim a limitation of “a clutch duty cycle corresponding to the sum of the first and second magnitudes of clutch torque”, as best interpretation, this is unclear and vague to compare “directly” between different units (i.e., time unit, and a torque unit are compared – is there a use of a cross-reference/a Look Up Table?).

C. Dependent claims 13-14 are rejected because they inherit that same limitations from their parent claim 12.

### ***Conclusions***

6. The prior art made of record, which are listed in PTO-892, and not relied upon are considered pertinent to applicant's disclosure.

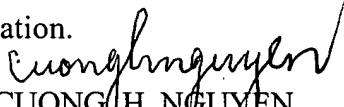
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CUONG H. NGUYEN whose telephone number is 571-272-6759. The examiner can normally be reached on 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS G. BLACK can be reached on 571-272-6956. The Rightfax

number for the organization where this application is assigned is 571-273-6759.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Please provide support, with page and line numbers, for any amended or new claim in an effort to help advance prosecution; otherwise any new claim language that is introduced in an amended or new claim may be considered as new matter, especially if the Application is a Jumbo Application.

  
CUONG H. NGUYEN  
Primary Examiner  
Art Unit 3661